

Save Code list for future reference

Refer to the setup procedure below and look up the 3 digit code for your brand of TV, VCR, etc., from the list below.

Refer to the Owner’s Manual for your remote for more information.

Direct Code Entry

1. Press and hold the **CODE SEARCH** button until the red indicator stays on, then release the **CODE SEARCH** button.

2. Press and release the desired Mode button (**TV**, **VCR**, etc.). The red indicator blinks, then stays lit.

3. Enter the 3 digit code from the code tables. Note: after a valid code entry, the red indicator turns off. For an invalid code, the red indicator flashes.

4. With your device on, press **CHANNEL UP**. If the device responds, no further programming is required. Note: If some buttons do not operate your equipment, try one of the other codes for your brand.

Complete Library Code Search

If after trying “Direct Code Entry” or “Code Search (by Brand)” your product does not respond, or if your brand is not listed, try doing a complete search of the code library for your code by following the steps below.

1. Manually turn on the device (TV, VCR, etc.) to be controlled.

2. Press and hold the **CODE SEARCH** button until the red indicator stays on, then release the **CODE SEARCH** button.

3. Press and release the desired Mode button (**TV**, **VCR**, etc.). The red indicator blinks, then stays lit.

4. Press the **CHANNEL UP** button repeatedly (up to 300 times) until the device to be controlled changes channel. The red indicator blinks, then stays lit.

5. Press and release **MUTE** to install the code.

Code Search (by Brand)

Lets you search for a code for a specific Brand within the Code Library for a particular manufacturer.

1. Turn on the device (TV, VCR, etc.) to be controlled.

2. Press and hold the **CODE SEARCH** button until the red indicator remains on, then release the **CODE SEARCH** button.

3. Press and release the desired Mode button (**TV**, **VCR**, etc.). The red indicator blinks off once.

4. Press and release the numeric button (**0-9**) corresponding to desired Manufacturer (see table below). Note, pressing “**0**” performs a full library search same as Complete Library Code Search Method.

5. Press the **CHANNEL UP** button ((or **POWER** or **PLAY** (VCR only)) repeatedly until the device to be controlled changes channel.

6. Press and release **MUTE** to install the code.

Note, when all codes under a Brand have been searched the red indicator flashes rapidly for 3 seconds.

Most users will want to store VCR codes under the **VCR** button, Cable codes under **Cable**, etc. If you want to store a VCR code under **Cable**, etc., first follow the procedure for Direct Code Entry and press **Cable** in step 2 of Direct Code Entry, then enter ANY VCR code in step 3 of Direct Code Entry. Then follow the steps above for Brand Search or Complete Search.

Brand Search Table

Look up your brand in the appropriate column (TV, VCR, etc.) in the table below. Look for the digit (1, 2, 3, etc.) that applies to your brand, and enter it in step 4 of “Code Search (by Brand).”

Digit	TV	VCR/DVD/DVR	CABLE	SAT/DBS	CD/AUDIO
1	Zenith	Zenith, Apex	Jerrold	Zenith, Gemini	Zenith
2	Philips, Magnavox	Marantz, Philips, Magnavox	Tocom, General Instrument,	Philips, Magnavox	Marantz, Philips, Magnavox
3	Sony, Panasonic, Sharp, Toshiba, Daewoo	Sony, Panasonic, Sharp, Toshiba, Daewoo, Yamaha, Denon	RCA, GE, Proscan, Pioneer	Sony, Panasonic, Sharp, Toshiba,	Sony, Panasonic, Technics, Sharp, Toshiba
4	Hitachi, Sanyo, LG-Goldstar, Samsung, JVC, Mitsubishi	Hitachi, Sanyo, LG-Goldstar, Samsung, JVC, Mitsubishi	Zenith, Gemini	Hitachi, JVC, Samsung	Hitachi, Sanyo, JVC, LG-Goldstar, Samsung, LG-Goldstar, Mitsubishi
5	Sylvania, Fisher, Curtis-Mathes, Emerson	Sylvania, Fisher, Curtis-Mathes, Emerson	Philips, Magnavox	General Instrument, EchoStar, Dish, Hughes, Primestar	Sylvania, Fisher, Curtis-Mathes, Emerson, Optimus
6	N/A	N/A	N/A	N/A	Pioneer, Teac, Nad
7	N/A	N/A	N/A	N/A	Kenwood, Yamaha, Denon, Onkyo
8	RCA, GE, Proscan	RCA, GE, Proscan	Scientific Atlanta	RCA, GE, Proscan, Pioneer	RCA, GE, Proscan
9	N/A	N/A	N/A	N/A	N/A
0	ALL	ALL	ALL	ALL	ALL

ABEX	120
ADMIRAL	701 918
ADVENTURA	019
AIKO	407
AIWA	121 221
ALLERON	206
AMARK	603
AMTRON	906
AKAI	801
AMSTRAD	520
ANAM NATIONAL	104 805
	901 906 920
AOC	002 003 102 119
	217 302 502 814
ARCHER	603
AUDIOVOX	906
BANG & OLUFSEN	620
BELCOR	002
BELL & HOWELL	506 601 701
BRADFORD	906
BROKSONIC	215 316
BROKWOOD	002
CANDLE	002 019 402 502
CAPEHART	119
CELEBRITY	801
CENTURION	502
CETRONIC	805
CHANGHONG	023
CITIZEN	002 112 319 402 407
	502 512 701 805 906
CLAIRTONE	003
CLASSIC	023 805
CLP	031
CLP CLASSIC	009 009 002
COLORTYME	002 502 602
CONCERTO	002 502
CONCIERGE	713
CONTEC/CONY	003 802
	805 902 906
CRAIG	805 906
CROWN	805 906
CURTIS MATHES	002 103 112 502
	506 512 601 614 701 704
CXC	805 906
DAEWOO	002 102 110 214
	303 311 314 403 407 415
	502 503 611 614 805 809
DAYTRON	002 502
DIMENSIA	601 704
DUMONT	002 713
DYNASTY	805
ELEKTRA	701
ELECTROBAND	003 801
ELECTROHOME	002 502
	803 901 914
EMERSON	002 003 004 005 104
	105 106 115 117 204 205 206
	213 304 305 316 319 405 421
	502 505 506 519 520 604 605
	705 804 805 903 904 905 906
ENVISION	002 502

FISHER	506 522 606 619 902
FUJITSU	206 321
FUNAI	117 206 421 520 805 906
FUTURETEC	805 906
GE	002 006 007 018 107
	114 310 312 502 601 704
	719 803 806 810 901 911
GIBRALTER	002 713
GOLDSTAR	002 102 117 207
	217 307 502 818 914
GRUNDY	206 906
HALLMARK	002 502
HARVARD	906
HITACHI	002 016 116 216 315 410
	502 507 515 519 607 615 622
	701 707 710 715 815 902 915
IMA	906
INFINITY	807
INTEQ	713
JANEIL	019
JBL	807
JCB	801
JC PENNEY	002 007 102 107 112
	310 312 402 502 512 601
	704 719 803 806 818 907
JENSEN	002 502
JVC	007 107 108
	308 510 607 902
KAWASHO	002 502 801
KAYPANI	119
KEC	805
KENWOOD	002 502 914
KLOSS NOVABEAM	019 408 508
KONKA	203 208 219
	306 317 417
KTV	003 213 319
	608 703 805 906
LODGENET	601 701
LOEWE	722 807
LOGIK	601 701
LUXMAN	002 502
LXI	002 312 502 506
	512 601 704 719 807
MAGNAVOX	002 009 109 118
	209 309 402 408 502
	508 510 807 914 917
MAJESTIC	601 701
MARANTZ	002 502 807
MEGATRON	002 502 507
MEI	003
MEMOREX	002 115 206 502
	506 601 701 706
MGA	002 102 206
	502 619 803 914
MIDLAND	007 107 312 713 719 818
MINUTZ	806
MITSUBISHI	002 102 206 502 510
	619 709 803 814 914
MONTGOMERY WARD	601 701
MOTOROLA	901 918
MTC	002 003 102 112 502 512
MULTITECH	906
MULTIVISION	010
NAD	002 120 502 512

NEC	002 102 110 111
	502 510 602 901
NIKEI	805
NIKKO	002 407 502
NTC	407
ONKING	805
ONWA	805 906
OPTIMUS	120 618
OPTONICA	111 918
ORION	105 115 713
PANASONIC	007 107 416 608
	618 718 807 901
PHILCO	002 009 102 109 309 402
	408 502 508 807 901 914
PHILIPS	002 009 020 109 122
	202 209 210 222 310 322
	402 408 422 508 510 807
	822 901 914 917 919 922
PHILIPS/MAGNAVOX	020 022
	422 919 922
PILOT	002
PIONEER	002 120 502 519 610
PORTLAND	002 102 407 502
PRECISION	218
PRICE CLUB	112
PRISM	107
PROSCAN	312 601 704 719
PROTON	002 119 220 502 820 910
PULSAR	713
PULSER	002
QUASAR	007 107 416 608
	618 718 807 901
RADIO SHACK/REALISTIC	002
	021 111 117 406 502 506 601
	618 704 705 805 818 906 914
RCA	002 021 011 102 114 211 302
	312 318 320 406 409 411 420
	502 511 514 519 601 702 711 719
	720 809 810 811 901 911 912 914
RHAPSODY	003
RUNCO	713
SAMPO	002 119 502 818
SAMSUNG	002 012 102 103 112
	212 502 512 818 914
SAMSUX	502
SANSUI	115 215
SANYO	002 412 506
	522 612 619 902
SCOTCH	002 502
SCOTT	002 004 105
	206 502 805 906
SEARS	002 112 206 312 502
	506 512 520 601 612
	619 704 719 902 914
SHARP	002 013 014 111 502
	509 712 812 813 913 918
SHOGUN	002
SIGNATURE	601 701 903
SIMPSON	402
SONIC	003
SONY	202 414 708 801
SOUNDESIGN	002 206 402
	502 805 906
SPECTRAVISION	921

SQUAREVIEW	520
SSS	002 805 906
STARLITE	906
SUPREMACY	019
SUPREME	801
SYLVANIA	002 009 109 117
	209 309 402 408 421 502
	508 520 717 807 914 917
SYMPHONIC	117 421 520 904 906
TANDY	918
TATUNG	901
TECHNICS	007 107
TECHWOOD	002 007 107 502
TEKNIKA	002 019 102 112
	206 209 402 407 502 512
	601 618 701 805 902 906
TELECATION	313
TELERENT	601 701
TERA	002 220
TMK	002 502
TOSHIBA	112 313 413 419 506
	510 512 517 613 902
UNIVERSAL	310 806
VICTOR	607
VIDTECH	002 102 502
VIKING	019
WARDS	002 004 009 102 109
	111 206 209 310 408 502 508
	513 601 701 704 806 807 914
WHITE WESTINGHOUSE	117 311
	611 614
YAMAHA	002 102 502 914
ZENITH	002 008 115 215 405 407
	507 601 701 713 903 916

VCR

ADMIRAL	224
ADVENTURA	726
AIKO	826
AIWA	126 324 528 726
AKAI	027 235 335 424
	524 624 724 924
ALLEGRO	326 534 925
AMERICAN HIGH	130 226
ASHA	425
AUDIO DYNAMICS	025 436
AUDIOVOX	525
DAEWOO	529
BELL & HOWELL	428
BEAUMARK	425
BROKSONIC	227 325 530 626 632
CALIX	525
CANDLE	025 026 425
	525 625 725 825
CANNON	130 226 535 635
CAPEHART	534
CARVER	330
CCE	230 826
CITIZEN	025 026 425 525
	625 725 825 826
COLORTYME	025
COLT	230

CRAIG	230 425 426 525
CURTIS MATHES	025 124 130 226
	324 425 526 635 725
CYBERNEX	425
DAEWOO	026 625 626
	726 825 826 926
DBX	025 436
DIMENSIA	124
DYNATECH	324 726
ELECTROHOME	027 525
ELECTROPHONIC	525
EMERSON	027 028 127 128 130
	226 227 228 247 324 325
	327 427 428 525 526 527 528
	625 626 627 628 630 634 724
	726 727 735 827 828 924 927
FISHER	025 029 032 129
	328 330 426 428 928
FUJI	130 226 524
FUNAI	324 247 726 924
GARRARD	726
GE	124 130 136 226
	425 429 635 835
GOLDSTAR	025 236 525
GRADIENTE	726
GO-VIDEO	139 438 537
HARLEY DAVIDSON	726
HARMAN KARDON	025 930
HARWOOD	230
HEADQUARTER	428
HITACHI	136 235 324 336
	538 629 638 829 834
HI-Q	426
INSTANT REPLAY	130 226 924
INTEQ	525
JCL	130 226
JC PENNEY	025 130 235 425 428
	436 525 629 635 834 935
JENSEN	235 629
JVC	025 235 239
	326 339 428 436
KENWOOD	025 235 428 436 725
KLH	230 237
KODAK	130 226 525
LLOYD	324 726
LOGIK	230
LXI	525
MAGNAVOX	130 226 330
	534 536 635 734
MAGNIN	425
MARANTZ	025 130 226 330
	428 436 530 535 725
MARIA	525
MATSUSHITA	130 226
MINOLTA	130 226
MEMOREX	130 224 226 324 335
	425 426 428 525 534 726
MGA	027 630
MGN TECHNOLOGY	425
MIDLAND	429
MINOLTA	629 834
MITSUBISHI	027 031 131 229
	231 329 431 436
	531 629 630 730 930

VCR, cont.

MONTGOMERY WARD	224	631
MOTOROLA	130	224 226
MTC	324	425 726
MULTITECH	324	425 726 429 230
NEC	324	425 428 526 530
.....	725	731 831 931 436
NIKKO	525	
NOBLEX	425	
OLYMPUS	130	226
OPTIMUS	039	224 525
.....	537	737 837 937
OPTONICA	537	631
ORION	227	
PANASONIC	039	130 226
.....	635	636 937 938
PENTAX	136	629 725 834
PENTEX RESEARCH	025	
PHILCO	130	226 330 635
PHILIPS	130	226 330 430 434 439
.....	536	631 734 738 934 937
PHILIPS/MAGNAVOX	434	934
PILOT	525	
PIONEER	132	232 436 629
PORTLAND	026	725 825
PROSCAN	124	
PROTEC	230	
PULSAR	534	
QUARTER	428	
QUARTZ	428	
QUASAR	039	130 635 636 937
RCA	033	124 130 133 135 136
.....	226	233 424 424 425 432 532
.....	629	636 732 832 834 835 837 932
RADIOSHACK	027	029 124 129
.....	130	224 226 324 335 425 426 428
.....	525	631 635 726 737 835 837 937
RADIX	525	
RANDEX	525	
REALISTIC	027	029 124 129
.....	130	224 226 324 335 425 426
.....	428	525 631 635 726 737 837 937
RICOH	936	
RUNCO	534	
SAMSUNG	037	335 425 427
.....	429	537 624 625 629
SANKY	224	534
SANSUI	235	333 436
SANYO	032	328 425 426 428
SCOTT	325	327 433 625
.....	626	630 735 927
SEARS	029	129 130 226 330 426
.....	428	525 629 834 928 935
SHARP	027	224 324 338
.....	631	637 737 825
SHINTOM	230	337 524 629 936
SHOGUN	425	
SIGNATURE	324	
SINGER	130	226 230
SONY	034	038 138 238
.....	524	539 639 838 936
STS	130	226 629 834
SYLVANIA	130	247 324 330
.....	536	630 635 726 924
SYMPHONIC	225	247 324 726 924

TANDY	324	428
TASHIKO	525	
TATUNG	235	
TEAC	235	324 726
TECHNICS	130	226
TEKNIKA ...	130	134 226 324 525 726
TiVo	738	838
TOSHIBA	029	330 433
.....	625	629 630 735
TOTEVISION	425	525
TMK	425	526 828
UNITECH	425	
VECTOR RESEARCH	025	436
.....	625	725
VICTOR	436	
VIDEO CONCEPTS	025	027
.....	436	625 725
VIDEOSONIC	425	
WARDS	027	130 224 226 230
.....	234	324 425 426 525
.....	625	629 631 726 735 834
WHITE WESTINGHOUSE	324	924
XR-1000	130	226 230 726
YAMAHA	025	235 428 436
ZENITH	030	036 125 326
.....	436	437 524 525 534 632
.....	638	729 824 925 929 936

DVR

SONIC BLUE REPLAY	938
PHILIPS TiVo	738
SONY TiVo	838

Cable

ABC	048	148	248	348	747	847	947
ADELPHIA	261						
ALLEGRO	054	154					
AMERICAST	354						
ANTRONIX	448	548					
ARCHER	448	548	648	748			
AT&T	752						
CABLETENNA	448						
CABLEVIEW	448						
CENTURY	748						
CITIZEN	748						
COLOUR VOICE	848	948					
COMTRONICS	049	149					
CONTEC/CONY	249						
EASTERN	349						
GARRARD	748						
GC ELECTRONICS	548						
GEMINI	255	449	549				
GE	556						
GENERAL INSTRUMENT	053	453					
.....	454	552	554	654			
.....	752	754	947	952			
HAMLIN	649	749	849				
HITACHI	947						
HYTEK	847						
JASCO	748						
JERROLD	048	050	148	254	348		
.....	449	454	552	554	652	747	752
MAGNAVOX	150						

MEMOREX	250
MOTOROLA	048 050 053 148
.....	254 348 449 453 454 552 554
.....	652 654 747 752 754 947 952
MOVIE TIME	350 847
NSC	350 847
OAK	249 550 847
PACE	854
PANASONIC	452 647
PARAGON	250
PHILIPS	150 549 650 748
.....	750 848 850 948
PHILIPS/MAGNAVOX	055 152
PIONEER	051 451 950
PULSAR	250
RADIO SHACK	055 152 154
RCA	352 647
REALISTIC	548
REGAL	849
REGENCY	349
REMBRANDT	947
RUNCO	250
SAMSUNG	049 051
SCIENTIFIC ATLANTA	155 248
.....	251 261 351 451 362
SIGNAL	049 449
SIGNATURE	947
SL MARX	049
SPRUCER	647
STANDARD COMPONENTS	551
STARCOM	348 449 747
STARGATE	049 449
STAR SIGHT	653
STAR SIGHT CABLE SERVICE	352
STARQUEST	449
STAR TRAK	253
TANDY	651
TELEVIEW	049
TELEWEST	854
TEXSCAN	551
TOCOM	048 751 952
TOSHIBA	250
TUSA	449
TV86	350
UNIKA	448 548 748
UNITED ARTISTS	847
UNITED CABLE	747
UNIVERSAL	448 548 648 748 851
VIDEOWAY	052
VIEWSTAR	149 150 350 651
VIDEO TECH	656
ZENITH	054 154 250 353 554 556
.....	553 653 753 853 951 953 954

Laser Disc

DENON	132
PIONEER	132
PROSCAN	432
RCA	432
SANYO	824
SONY	933
ZENITH	824

DVD

AIWA	043
AKAI	141
AMES	744
APEX	044 146 347
CLASSIC	744
DAEWOO	046 645 745
DENON	641 743
DIGITREX	146
ELTA	045 145
EMERSON	241
FISHER	243
GE	644
GOLDSTAR	241
GO-VIDEO	244 342
GRADIENTE	143
HITACHI	042 543 545
HITEKER	146
HARMAN/KARDON	344
JVC	242 443
INTEGRA	843
KENWOOD	544 641
KLH	644
KONKA	642 742 842 942
KOSS	143
LASONIC	047
LG	241
MAGNAVOX	441 442
MARANTZ	441 442 241
MICROSOFT	941
MINTEK	644
MITSUBISHI	841
MUSTEK	744
NAD	944 241
NAKAMICHI	844
ONKYO	843
OPTIMUS	042 545
ORITRON	143
PANASONIC	641 741
PHILIPS	441 442 943
PIONEER	042 545
PROLINE	143
PROSCAN	941
RADIOSHACK	546 945 946
RCA	546 644 941 945 946
SAMSUNG	147 342
SAMPO	343
SANYO	243
SEG	444
SHARP	341
SHERWOOD	144
SHINCO	644
SONY	541
TEAC	042 545
TECHNICS	641 741
TEVION	246 446 646 746 846
THETA DIGITAL	042 545
TOSHIBA	245 346 441
WHARFEDALE	845
YAMAHA	641 643
YAMAKAWA	445
ZENITH	142 241 345

SAT

AMPLICA	159
CHANNEL MASTER	359 459 559
CHAPPARAL	657 659 757
CHEYENNE	757
DRAKE	059 360 857
DISH NETWORK	067 366 460
.....	464 466 560 660 962
DX ANTENNA	458 859
ECHOSPHERE	464
ECHOSTAR	067 366 460
.....	464 560 660 962
EXPRESSVU	067 366 464 962
FUJITSU	760 860
GE	265 863
GENERAL INSTRUMENTS	058 066
.....	158 166 258 665 865 960 965
HITACHI DSS	765 864
HUGHES SATELLITE DSS	465 564
.....	664 864 964
JERROLD	361
JVC	466
KENWOOD	461
LUXOR	561
MAGNAVOX DSS	259 565 862
MACOM STATE	661
NORSTAT	761 861
PACE	063 163 266
PANASONIC DSS	260 264
PRIMESTAR	364 665
PHILIPS	259 565 862
PHILIPS/MAGNAVOX	259 565 862
PIONEER	060
PROSCAN	265 863
RCA DSS	265 566 866 966
REALISTIC	358 961
SAMSUNG	061
SHARP	062
SIERRA I II III	757
DSS SONY	160 963
STARCHOICE	364 665
STAR SIGHT	964
STAR TRAK	462
STS	458 558 658 758
SUPER GUIDE	562
THOMSON	063
TOSHIBA	858
TOSHIBA DSS	064 164 764
UNIDEN	762 958
UNIDEN DSS	964
VIDEO CIPHER II	059
ZENITH	059 065 163 165
.....	266 360 857 957

CD

ADC	667
ADCOM	073 767
AIWA	787 867 885 967
AKAI	173 375 684
AUDIO TECHNICA	168
CALIFORNIA AUDIO LABS	273
CAPETRONIC	568
CARVER	184 268 368 468
CASIO	379
CITIZEN	284
CURTIS MATHES	379
DENON	668
EMERSON	767 868 968
FISHER	169 269 368 369 473
GE	174
GENEXXA	469 573 868 968
GOLDSTAR	673
HARMAN KARDON	669 770
HITACHI	469
INKEL	769
JC PENNEY	379 670
JVC	869 982
KENWOOD	070 170 374
.....	474 484 969
KRELL	268
KYOCERA	667
LUXMAN	270 370 475 574
LXI	379 688
MAGNAVOX	268 681 774
MARANTZ	268 470 570 874
MCS	379 670
MGA	770
MISSION	268
MITSUBISHI	770 870
NAD	773 975
NAKAMICHI	071 784 970
NEC	670
NIKKO	168 269 968
NSM	268
ONKYO	171 271 782 873
OPTIMUS	070 076 368 371 376
.....	468 469 471 571 671 776 868
PANASONIC	273 675 974 683 887
PHILIPS	184 268 774
PIONEER	289 385 469
.....	573 676 771 871
PROTON	268
QUASAR	273
RADIOSHACK	089 272 280 289
.....	468 488 571 676
RCA	086 089 181 299 368
.....	676 767 868 971 973 988
REALISTIC	368 371 469 568
.....	570 571 767 868 968
ROTEL	268
SAE	268
SAMSUNG	775
SANSUI	072 075 268 868 973
SANYO	172 175 368 473 875
SCOTT	767 868 968
SEARS	070 379 570 868
SHARP	070 569 570
SHERWOOD	272 471 570 587 769
SHURE	670